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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/813,034	03/31/2004	Kyu Jac You	BHT/3162-11	3865
BRUCE H. TR	7590 10/15/200 OXELL	EXAMINER		
SUITE 1404		BOWERS, NATHAN ANDREW		
5205 LEESBURG PIKE FALLS CHURCH, VA 22041			ART UNIT	PAPER NUMBER
	,		1797	
		MAIL DATE	DELIVERY MODE	
			10/15/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)				
	10/813,034	YOU, KYU JAE				
Office Action Summary	Examiner	Art Unit				
	Nathan A. Bowers	1797				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>08 A</u>	<u>ugust 2007</u> .	,				
2a) ☐ This action is FINAL . 2b) ☑ This	This action is FINAL . 2b)⊠ This action is non-final.					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-10 is/are pending in the application.						
4a) Of the above claim(s) 7-10 is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-6</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	ır.					
10)⊠ The drawing(s) filed on <u>31 March 2004</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list 	s have been received. s have been received in Applicat rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage				
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	4) Interview Summary Paper No(s)/Mail D					
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal F 6) Other:					

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DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of Group I, claims 1-6 in the reply filed on 08 August 2007 is acknowledged.

Claims 7-10 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 08 August 2007.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 1) Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Von Fahnestock (US 5451523) in view of Darling (US 20040265993) and Lewis (US 20060010947).

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With respect to claims 1, 5 and 6, Von Fahnestock discloses a mobile unit for creating fertilizer from organic wastes. The mobile unit consists of a concrete truck whose drum mixer (Figure 1:1) is fashioned as a reactor tank capable of accommodating organic matter. This is disclosed in column 17, line 37 to column 18, line 37. Von Fahnestock, however, states that organic materials enter the mixer via a chain conveyor (Figure 1:5) rather than a conduit regulated by a suction pump.

Darling discloses a mobile unit for creating fertilizer from organic wastes. A plurality of reaction tanks (Figure 1:60, 62) are provided for the enzymatic digestion of waste materials. Wastes are moved into the tanks from a grinder (Figure 1:68) using a suction pump (Figure 1:88). Discharge pumps are additionally provided for removing organic materials from the mixing reactor. This is disclosed in paragraphs [0034]-[0046]. Paragraph [0036] also states that pH is adjusted in the mixing reactor through the introduction of various additives.

Von Fahnestock and Darling are analogous art because they are from the same field of endeavor regarding mobile waste treatment units.

At the time of the invention, it would have been obvious to substitute the conveyor system disclosed by Von Fahnestock with a pumping mechanism capable of delivering and removing organic wastes to and from the mixing reactor. Conveyors and pumps are considered to be functionally equivalent devices for transporting materials within a system. If it were determined for any reason that a pumping system would have been advantageous over a conveyor system, it would have been obvious to modify the apparatus of Von Fahnestock accordingly.

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At the time of the invention, it would have also been obvious to modify the apparatus of Von Fahnestock in order to include a supply device capable of introducing additives to the reactor. Darling teaches that additives such as enzymes are essential to the degradation of waste materials. Darling also teaches that additives such as acids are effective pH regulating chemicals.

The combination of Von Fahnestock and Darling still differs from the Applicant's claimed invention because neither reference teaches that vehicle exhaust gas is introduced to the reactor.

Lewis discloses a mobile fertilizer producing vehicle. Lewis teaches that exhaust produced at the engine (Figure 1:18) is moved through a muffler (Figure 1:28) via a gas pipe (Figure 1:42) to a reactor (Figure 1:48). At the reactor, chemicals from the exhaust gas are collected and used to make a fertilizer. This is disclosed in paragraphs [0042]-[0045].

Von Fahnestock, Darling and Lewis are analogous art because they are from the same field of endeavor regarding mobile fertilizer units.

At the time of the invention, it would have been obvious to alter the construction of the vehicle disclosed by Von Fahnestock in order to introduce exhaust into the mixing reactor. Lewis teaches in paragraph [0020] that exhaust gases generally include nitrogen and other nutrients that are readily converted into fertilizer. Exhaust gases represent a viable nutrient source that is attainable at a minimal cost.

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With respect to claims 2-4, Von Fahnestock, Darling and Lewis disclose the apparatus set forth in claim 1 as set forth in the 35 U.S.C. 103 rejection above. As previously mentioned, Von Fahnestock teaches that the mixing reactor is created from a modified cement mixer. Darling additionally teaches that it is known in the art to fashion reactor tanks on the back of various trucks and trailers.

At the time of the invention, it would have been obvious to construct the mixing reactor disclosed by Von Fahnestock on the back of a truck or trailer. The use of trucks and trailers to haul various mixing reactors is considered to be well known in the art.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nathan A. Bowers whose telephone number is (571) 272-8613. The examiner can normally be reached on Monday-Friday 8 AM to 5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gladys Corcoran can be reached on (571) 272-1214. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

NAB

GLADYS JP CORCORAN SUPERVISORY PATENT EXAMINER